

CAPITAL PROJECT JUSTIFICATION 2004-2005

JOB NO.: IGS02-07

W.O. #02-53663

TITLE: ID FAN DRIVE REPLACEMENTS

DESCRIPTION: Replace the Induced Draft Fan Variable Speed Drives

JUSTIFICATION: OBSOLESCENCE

WHAT IS OBSOLETE: Control system circuit boards

WHY OBSOLETE: No longer manufactured.

WHEN OBSOLETE: 1999

WHY IS IT STILL NEEDED: The ID fan drives are used to adjust the output of the ID fans.

ADDITIONAL DETAIL: The ID Fan Drives were originally manufactured by Westinghouse. This division of Westinghouse was later sold to AEG and then to CEGELEC. During the transition through various owners, the manufacture of our drive system control components was stopped. We have been using our capital spare stock to keep the drives running, but we are currently down to one spare on several critical control boards. We have been unable to locate any replacement circuit boards.

This project is planned for several years because of limited outage time. We will start replacing drives in 2003-2004 and use parts from the removed equipment to maintain existing equipment until all the drives are replaced.

COST ESTIMATE:

	<u>2002-2003</u>	<u>2003-2004</u>	<u>2004-2005</u>	<u>2005-2006</u>	<u>2006-2007</u>	<u>Totals</u>
Engineering Labor	\$5,000	\$5,000	\$10,000	\$10,000	\$10,000	\$40,000
IPSC Labor	\$0	\$25,000	\$100,000	\$200,000	\$100,000	\$425,000
Contractor	\$70,000	\$75,000	\$100,000	\$200,000	\$100,000	\$545,000
Material	<u>\$5,000</u>	<u>\$775,000</u>	<u>\$1,790,000</u>	<u>\$2,970,000</u>	<u>\$1,790,000</u>	<u>\$7,330,000</u>
Job Total	\$80,000	\$880,000	\$2,000,000	\$3,380,000	\$2,000,000	\$8,340,000

IP7013546

CAPITAL PROJECT JUSTIFICATION 2004-2005

ALTERNATIVES: None identified.

EFFECT OF DEFERRAL: Increased drive down time and loss of equipment redundancy.

PROJECT HISTORY: The contract has been awarded to Alstom and the first installation will be done on Unit 1 in the spring of 2004.

JOB NO.:

IGS02-07

W.O. #02-53663

TITLE:

ID FAN DRIVE REPLACEMENTS

DESCRIPTION:

Replace the Induced Draft Fan Variable Speed Drives

JUSTIFICATION:

OBSOLESCENCE

WHAT IS OBSOLETE:

Control system circuit boards

WHY OBSOLETE:

No longer manufactured.

WHEN OBSOLETE:

1999

WHY IS IT STILL NEEDED:

The ID fan drives are used to adjust the output of the ID fans.

ADDITIONAL DETAIL:

The ID Fan Drives were originally manufactured by Westinghouse. This division of Westinghouse was later sold to AEG and then to CEGELEC. During the transition through various owners, the manufacture of our drive system control components was stopped. We have been using our capital spare stock to keep the drives running, but we are currently down to one spare on several critical control boards. We have been unable to locate any replacement circuit boards.

This project is planned for several years because of limited outage time. We will start replacing drives in 2003-2004 and use parts from the removed equipment to maintain existing equipment until all the drives are replaced.

COST ESTIMATE:

	<u>2002-2003</u>	<u>2003-2004</u>	<u>2004-2005</u>	<u>2005-2006</u>	<u>2006-2007</u>
Engineering Labor	\$5,000	\$5,000	\$10,000	\$10,000	\$10,000
IPSC Labor	\$0	\$25,000	\$100,000	\$200,000	\$100,000
Contractor	\$70,000	\$75,000	\$100,000	\$200,000	\$100,000
Material	<u>\$5,000</u>	<u>\$775,000</u>	<u>\$1,790,000</u>	<u>\$2,970,000</u>	<u>\$1,790,000</u>
Job Total	\$80,000	\$880,000	\$2,000,000	\$3,380,000	\$2,000,000

ALTERNATIVES:

None identified.

EFFECT OF DEFERRAL:

Increased drive down time and loss of equipment redundancy.

PROJECT HISTORY:

The contract has been awarded to Alstom and the first installation will be done on Unit 1 in the spring of 2004.

IP7013548

JOB NO:
#02-53663

IGS02-07

W.O.

TITLE: ID FAN DRIVE REPLACEMENTS

DESCRIPTION: Replace the ID Fan Variable Speed Drives.

JUSTIFICATION: OBSOLESCENCE

<u>WHAT IS OBSOLETE:</u>	Control System Circuit Boards
<u>WHY OBSOLETE:</u>	No longer manufactured.
<u>WHEN OBSOLETE:</u>	1999
<u>WHY IS IT STILL NEEDED:</u>	The ID Fan Drives are used to adjust the output of the ID Fans.

ADDITIONAL DETAIL: The ID Fan Drives were originally manufactured by Westinghouse. This division of Westinghouse was later sold to AEG and then to CEGELEC. During the transition through various owners, the manufacture of our drive system control components was stopped. We have been using our capital spare stock to keep the drives running, but we are currently down to one spare on several critical control boards. We have been unable to locate any replacement circuit boards.

This project is planned for several years because of limited outage time. We will start replacing drives in 2003-2004 and use parts from the removed equipment to maintain existing equipment until all the drives are replaced.

COST ESTIMATE:

	<u>2002-2003</u>	<u>2003-2004</u>	<u>2004-2005</u>	<u>2005-2006</u>	<u>2006-2007</u>
Engineering Labor	\$ 5,000	5,000	10,000	10,000	10,000
IPSC Labor	\$ 0	50,000	100,000	100,000	100,000
Contractor Labor	\$ 70,000	1,000,000	2,000,000	2,000,000	2,000,000
Material	\$ <u>5,000</u>	<u>25,000</u>	<u>50,000</u>	<u>50,000</u>	<u>50,000</u>
Job Total	\$ 75,000	1,080,000	2,160,000	2,160,000	2,160,000

ALTERNATIVES: None identified

EFFECT OF DEFERRAL: Increased drive down time and loss of equipment redundancy.

PROJECT HISTORY: Specifications have been prepared during 2002-2003.

IP7013549

JOB NO.: IGS02-10

W.O. #02-53663

TITLE: ID Fan Drive Replacements

DESCRIPTION: Replace the ID Fan Variable Speed Drives

JUSTIFICATION: OBSOLESCENCE

WHAT IS OBSOLETE: Control System Circuit Boards

WHY OBSOLETE: No longer manufactured

WHEN OBSOLETE: 1999

WHY IS IT STILL NEEDED: The ID Fan Drives are used to adjust the output of the ID Fans

ADDITIONAL DETAIL: The ID Fan Drives were originally manufactured by Westinghouse. This division of Westinghouse was later sold to AEG and then to CEGELEC. During the transition through various owners, the manufacture of our drive system control components was stopped. We have been using our capital spare stock to keep the drives running, but we are currently down to one spare on several critical control boards. We have been unable to locate any replacement circuit boards. Because of limited outage time, this project is planned for several years. We will start replacing drives in 2002-2003 and use parts from the removed equipment to maintain existing equipment until all the drives are replaced.

COST ESTIMATE:

	<u>2002-2003</u>	<u>2003-2004</u>	<u>Job Total</u>
Engineering Labor	\$10	\$10	
Installation Labor		\$100	
Contractor Labor	\$100	\$2000	
<u>Material</u>		<u>\$50</u>	
Job Total	\$110	\$2160	\$8750

ALTERNATIVES: None identified

EFFECT OF DEFERRAL: Increased drive down time and loss of equipment redundancy.

PROJECT HISTORY: